Anuj Godase

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EDUCATION

INDIANA UNIVERSITY
MS in Computer Science
Aug'19 - May'21 | Bloomington, IN
Cum. GPA: 3.67 / 4.0

PICT, UNIVERSITY OF PUNE
BEng in Computer Engineering
Aug'13 - May'17 | Pune, MH, India
Cum. GPA: 3.49 / 4.0

COURSEWORK

GRADUATE
Applied Algorithms
Cloud Computing
Elements of Artificial Intelligence
Deep Learning Systems
Machine Learning
Computer Vision

UNDERGRADUATE
Data Structures & Algorithms
Operating Systems
Databases
Discrete Mathematics
Multidisciplinary NLP

SKILLS

PROGRAMMING
Over 5000 lines:
Python • WebApp2
About 5000 lines:
Django • Java
Android • Javascript
Over 1000 lines:
PyTorch • NumPy
C++ • Go
Familiar:
Tensorflow • Pandas •
Matplotlib • MySQL • NoSQL

TOOLS
Extensively Used:
Google Cloud Platform
Linux • Git
Familiar with:
Android Studio • AWS

OPEN SOURCE CONTRIBUTIONS
• pip - The Python Package Installer
• Pytorch Geometric

For more info please visit: 1byxero.github.io

EXPERIENCE

WALNUT Software Engineer - Backend
July 2017 - June 2019 | Pune, MH, India

- Contributed to design and development of next-generation payment solutions including APIs and DB design affecting 7M users
- Built micro-service based backend infrastructure of REST APIs and internal dashboards to support lending, payments & financial management on Google Cloud Platform with Python and AngularJS
- Built monitoring framework in bank data center for linux based virtual machines
- Built data pipelines to process SMS of 7M users to show expense reports and trends for year-in-review in graphical format
- Built several batch data-parallel processing pipelines for streaming data for analytics dashboards using Apache Beam and GCP

RESEARCH

DR. ARIFUL AZAD'S GROUP Research Assistant
Jan 2020 – Present | Bloomington, IN
Working with **Dr. Ariful Azad** on exploring graph based deep learning algorithms and various factors affecting them.

IU COMPUTER VISION LAB Research Assistant
June 2020 – September 2020 | Bloomington, IN
Implemented UNet usings ResNet50 as encoder for analysing scope of improvement for state of the art depth estimation methods under guidance of **Dr. David Crandall**

PROJECTS

3D IMAGE SEGMENTATION USING GRAPH NEURAL NETWORKS
Spring 2020

- Used graph based deep learning algorithms on features generated from CNNs to improve proposal generation for object detection

ARTISTIC STYLE TRANSFER WITH DEEP LEARNING
Aug'16 - May'17

- Implemented deep convolutional models to reproduce any images artistic style. Explored optimization algorithms to reduce time required.
- Trained Perceptual Losses Networks to generate styled image in one forward pass, integrated it with real time webcam video to achieve video style transfer.

AUDIO EQUALIZATION OF MUSICAL INSTRUMENTS USING DEEP LEARNING
Fall 2019

- Experimented with different deep learning architectures for the task of audio equalisation using a custom made synthetic data from DSD100 dataset. Evaluated experiments using Sound to Noise as a comparison metric.

DEEP LEARNING ALGORITHMS
Fall 2019

- **Conditional Generative Adversarial Network:** Implemented a conditional GAN to control digit generation process using MNIST dataset.
- **Varitional Autoencoder**: Learned the gaussian distribution which can generate MNIST digits. Experimented with parameters of the distribution for their effect on digit generation.
- **Siamese Network for Voice Identification:** Implemented Siamese network for speaker classification for audio clips.